

# **[METHOD FOR MAKING ELECTRICAL CONNECTION TO ULTRASONIC TRANSDUCER]**

## **Abstract of Disclosure**

A method of making an electrical connection between a pair of electrically conductive surfaces, comprising the steps of: placing an electrically conductive (e.g., metal) mesh and a mass of adhesive material between a pair of mutually opposing electrically conductive surfaces; pressing the electrically conductive surfaces together with the mesh and adhesive material therebetween with sufficient pressure that the mesh contacts the opposing electrically conductive surfaces; and curing the adhesive material while pressing the electrically conductive surfaces together. In an ultrasonic transducer, electrically conductive mesh can be placed between a metallized rear surface of a piezoelectric ceramic layer and a printed circuit on a dielectric substrate. Alternatively, the mesh can be placed between opposing metallized surfaces of a piezoelectric ceramic layer and an acoustic backing layer, with electrical conductors being passed through the acoustic backing layer for connection to a printed circuit.

## Figures

Figure 1: A line graph showing the relationship between the number of people in a group and the time it takes for a message to be passed. The x-axis is labeled 'Number of people in group' and ranges from 0 to 10. The y-axis is labeled 'Time to pass message (minutes)' and ranges from 0 to 10. The graph shows a linear increase in time as the number of people increases. The data points are as follows:

Number of people in group	Time to pass message (minutes)
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10